

# **Energy Efficiency: Small Steps, Big Savings**

**Division of Energy - 2011**



**MISSOURI**  
DEPARTMENT OF  
NATURAL RESOURCES

## **Division Mission**

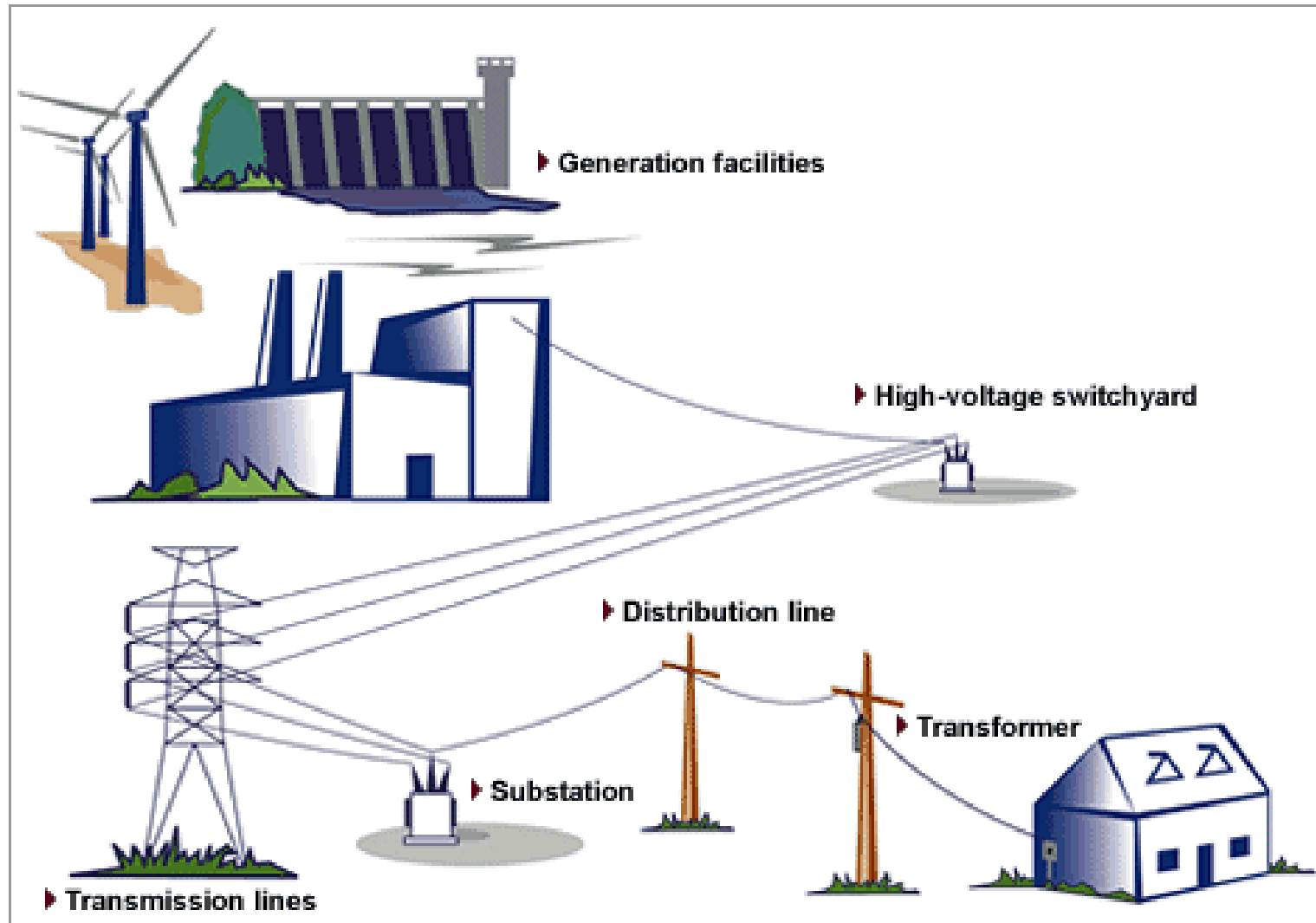
The Missouri Department of Natural Resources' Division of Energy is a nonregulatory entity that works to protect the environment and stimulate the economy through energy efficiency and renewable energy resources and technologies.

## Overview:

- So how do we get our energy?
- What is energy efficiency?
- 10 steps you can take today.
- Relevant Programs.
- Questions.

Missouri Department of

# Natural Resources



# What is Energy Efficiency?

- Energy efficiency means using less energy to accomplish the same task.



# What is Energy Conservation?

- Energy Conservation means not using energy.





# One Action = Five Benefits

1. Save money.
2. Increase the comfort of indoor environments.
3. Protect the environment.
4. Enhance the economy.
5. Promote energy security.

# One – Power Down



- If applicable, shut your computer down every night. Two clicks and you can walk away.
- If 5,000 people took this small step it would result in over \$55,000 in savings per year.



## Two – Turn off the Monitor



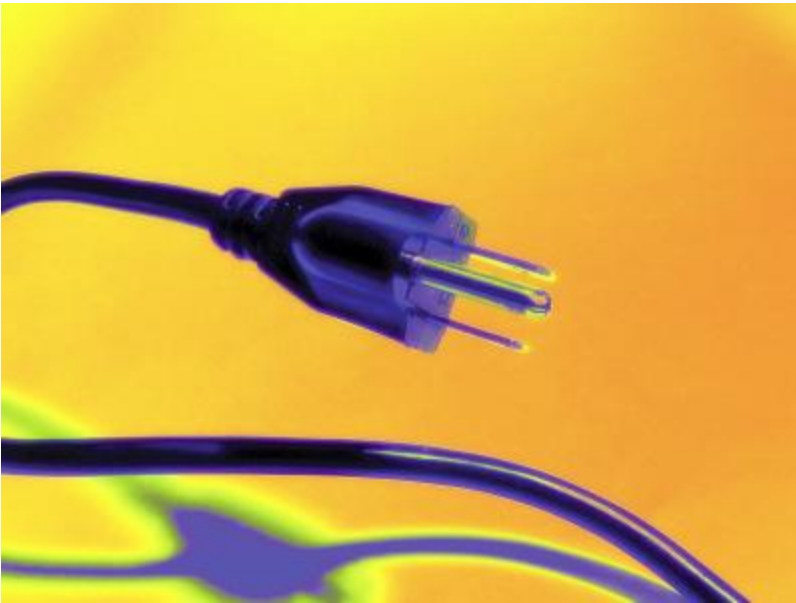
- Even when the monitor is sleeping it is still using energy. Turning the monitor off when you go for a break, lunch, or a meeting will result in energy savings.

## Three – Dim the Brightness



- Reduce brightness to 65%-75%. It is possible to drop the power intake by around 10-watts. If 5,000 people make this small change a savings of \$7,300 per year is realized!

## Four – Unplug it



- Energy loads can use up to 5% of an office building's electricity.
- Phantom energy can account for about 10 percent of an individual home's electricity use.

## Five – Choose your light bulbs carefully



- By choosing the right lighting you can reduce your lighting consumption and cost by 30% to 40% percent.

## Six – Use Revolving Doors



- Use revolving doors when entering and exiting building.
- Heat loss or gain through building openings can account for up to 18 percent of all building energy loss.

# Seven – Reduce Overhead Lights



- The less time the overhead lights operate, the more you save.
- Use task lights instead of overhead lights whenever possible.



## Eight – Hold meetings during work hours



- In state buildings, lighting and air-conditioning systems are designed to meet the need of the entire facility and are most efficient when running during normal hours.

## Nine – Heating and Cooling



- Typically, 43% of your utility bill goes for heating and cooling.

## Ten – Home Energy Audits

- Check insulation levels in your attic, exterior and basement walls, ceilings, floors and crawl spaces.
- Make sure your appliances and HVAC system are properly maintained.
- Hire a professional auditor.

# Relevant DE programs

## Missouri Personal Income Tax Deduction for Home Energy Audits



- Taxpayers may deduct 100% of the costs incurred for home energy audits and implementation of energy efficiency recommendations made by the auditor.
- Auditor must be DNR certified.

# Weatherization Assistance Program

- No cost services to select families at the 200% federal poverty level.
- Services provided through our network of 18 community agencies.





# Questions?

**Llona C. Weiss**  
**MDNR-Division of Energy**  
**P.O. Box 176**  
**Jefferson City, MO 65102**  
**[llona.weiss@dnr.mo.gov](mailto:llona.weiss@dnr.mo.gov)**  
**573-751-2254**



**MISSOURI**  
**DEPARTMENT OF**  
**NATURAL RESOURCES**